

Project No. 1251-100

Crude Oil Tank Farms Project, Agrood Area 30 (Module-1)



**Enppi**



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

Sr.	Pre-Commissioning and Commissioning Dossier Index	Applicable (Yes/No)
1	Mechanical Completion Certificate (MCC)	
2	Ready for Startup Certificate (RFSU)	
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4	System Limits Marked Up P&ID	
5	System Index	
6	Piping Pre-Commissioning	
	6.01) Piping Test Packs	
	6.02) Piping Pre-commissioning Check Lists	
7	Piping Commissioning	
	7.01) Service Test, GLT, CLT and N2 Purging Certificates	
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Sr.	Pre-Commissioning and Commissioning Dossier Index	Applicable (Yes/No)
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	8.01) System Mechanical Index	
	8.02) Equipment Drawings	
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	8.04) Boxing-up Certificates	

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	11.02) Instrumentation Supplier Check Lists & Reports	
<b>Sr.</b>	<b>Pre-Commissioning and Commissioning Dossier Index</b>	<b>Applicable (Yes/No)</b>
<b>12</b>	<b>Electrical Pre-Commissioning</b>	
	12.01) System Electrical Index	
	12.02) Electrical Drawings	
	12.03) Motor Datasheets	
	12.04) Electrical Cables Schedule	
	12.05) Electrical Cables Laying Certificates	
	12.06) Electrical Cables Testing Certificates	
	12.07) Electrical Cables Termination Certificates	
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	12.11) Electrical Supplier Check Lists & Reports	



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	13.01) Electrical -Commissioning Check Lists	
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	14.01) P&ID	
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Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

### 1-Mechanical Completion Certificate (MCC)



## SYSTEM MECHANICAL COMPLETION CERTIFICATE (MCC)

PROJECT TITLE : CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PROJECT No : 01251-100

SYSTEM NAME : Substation Building Electrical Cables Trays System

SYSTEM ID : 030-EL-11

### THIS IS TO CERTIFY THAT:

- THE ABOVE SYSTEM HAS BEEN FABRICATED, ERECTED, INSTALLED AND TESTED TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS, THE APPLICABLE CODES AND STANDARDS.
- ALL PRE-COMMISSIONING RELEVANT ACTIVITIES, TESTS, INSPECTIONS AND CHECKS HAVE BEEN CARRIED OUT FOR THIS SYSTEM AND FOUND ACCEPTABLE.
- Q/C DOCUMENTATION OF THE ABOVE SYSTEM HAS BEEN AUDITED BY THE CUSTOMER SITE QUALITY CONTROL AND FOUND COMPLETED.
- ALL PUNCH LIST ITEMS CATEGORY (A) IN THIS SUBSYSTEM WERE CLEARED.
- THIS SYTEM IS MECHANICALLY COMPLETED ON THE DATE 01/07/2021 AND READY FOR COMMISSIONING (RFC) WITH THE FOLLOWING EXCEPTIONS.

### EXCEPTIONS :

COMPANY	PETROJET	ENPPI	PMC
NAME	M. abd allah	M. Abbas	
TITLE	Q.c Engineer	Site Mgr	
SIGNATURE			
DATE	12/04/2021	12/4/2021	



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CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



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## 2- Ready for Startup Certificate (RFSU)



## READY FOR START UP CERTIFICATE

**PROJECT TITLE** : EGPC CRUDE OIL TANK FARMS PROJECT (AGROOD-02)

**PROJECT No.** : 1251-100


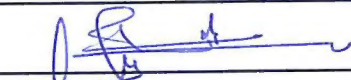

**SYSTEM /AREA /PLANT** : Substation Building Electrical cable trays system

**SYSTEM /AREA /PLANT No.** : 030-EL-011

**THIS IS TO CERTIFY THAT:**

- THE MENTIONED SYSTEM /AREA /PLANT IS READY FOR START UP WHERE ALL MECHANICAL WORKS, PRECOMMISSIONING AND COMMISSIONING ACTIVITIES HAVE BEEN SUCCESSFULLY COMPLETED.
- MECHANICAL COMPLETION CERTIFICATE(S) FOR THE MENTIONED SYSTEM / AREA / PLANT HAVE BEEN SIGNED.
- ISSUANCE OF THIS READY FOR START UP CERTIFICATE(S) SHALL NOT RELIEVE CONTRACTOR(S) FROM THEIR OBLIGATIONS TO COMPLETE THE REMAINING SYSTEMS NOR FROM THEIR WARRANTY OBLIGATIONS AND OTHER PROVISIONS OF THE CONTRACT.
- THE FOLLOWING EXCEPTIONS AGREED TO BE CLEARED AFTER START UP AND WILL NOT PREVENT START UP ACTIVITIES.

**EXCEPTIONS :**

COMPANY	CONSORTIUM	PPC
NAME	Ahmed El shafie	M. Ibrahim
TITLE	commissioning mgr.	Elec. engineer
SIGNATURE		
DATE	31-5-2021	





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

### 3- System Punch Lists

**PROJECT TITLE : CRUDE OIL TANK FARM PROJECT (AGROOD AREA)**

PROJECT NUMBER : 01251-100

**DISCIPLINE:** Electrical

**SYSTEM NAME:** Substation Building Electrical Cable Trays System




SYSTEM ID: 030-EL-11

**SUB-SYSTEM NAME:**

SUB-SYSTEM ID:

[illegible]

CAT: CATEGORY(A,B,C) ,ACTION BY: (ENPPI,CONST.CONTRACTOR,SUPPLIER.....), DISP: DISCIPLINE(PIP,MECH,ELECT,INST.....)

COMPANY	PTJ	ENPPI	PMC
NAME		Review	M. Oman
SIGN.			
DATE			28-3-2020



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
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#### 4- System Limits Marked Up P&ID



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 5- System Index



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
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## 6- Piping Pre-Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
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## 6.01- Piping Test Packs





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



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## 6.02- Piping Pre-commissioning Check Lists



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
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## 7- Piping Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



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## 7.01- Service Test, GLT, CLT and N2 Purging Certificates





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



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## 7.02- Piping Commissioning Check Lists

System ID	030-EL-011
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## 8- Mechanical Pre-Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
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## 8.01- System Mechanical Index





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
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## 8.02- Equipment Drawings



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
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### 8.03- Equipment Datasheets



Project: 01251-100  
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#### 8.04- Boxing-up Certificates



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## 8.05- Grouting Certificates



Project: 01251-100  
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## 8.06- Pre-Alignment Certificates





Project: 01251-100  
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## 8.07- Mechanical Pre-Commissioning Checklists



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## 9- Mechanical Commissioning



Project: 01251-100  
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## 9.01- Final Alignment Certificates



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## 9.02- Motor Solo Run Certificates



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### 9.03- Mechanical Run Test (MRT) Certificates





Project: 01251-100  
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## 9.04- Mechanical Commissioning Checklists



Project: 01251-100  
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## 9.05- Mechanical Supplier Check Lists & Reports



Project: 01251-100  
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System ID	030-EL-011
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## 10- Instrumentation Pre-Commissioning



Project: 01251-100  
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System ID	030-EL-011
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## 10.01- System Instrument Index



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
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## 10.02- Instrument Data Sheets



Project: 01251-100  
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System ID	030-EL-011
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### 10.03- Instrument Cable Schedule





Project: 01251-100  
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## 10.04- System Instrumentation Wiring Diagram



Project: 01251-100  
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## 10.05- Hook-up Drawing (Mechanical & Pneumatic)



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## 10.06- Instruments Cables Schedule



Project: 01251-100  
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## 10.07- Instruments Cables Laying Certificates



Project: 01251-100  
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## 10.08- Instruments Cables Termination Certificates



Project: 01251-100  
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## 10.09- Instruments Cables Testing Certificates





Project: 01251-100  
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## 10.10- Instruments Calibration Certificates



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## 10.11- Instrument Loop Checks Certificates

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## 10.12- Instrumentation Pre-Commissioning Check Lists



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### 10.13- Instrumentation Supplier Check Lists & Reports



Project: 01251-100  
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## 11- Instrumentation Commissioning



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## 11.01- Instrumentation Function Test Certificates



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## 11.02- Instrumentation Supplier Check Lists & Reports





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 12- Electrical Pre-Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



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## 12.01- System Electrical Index



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

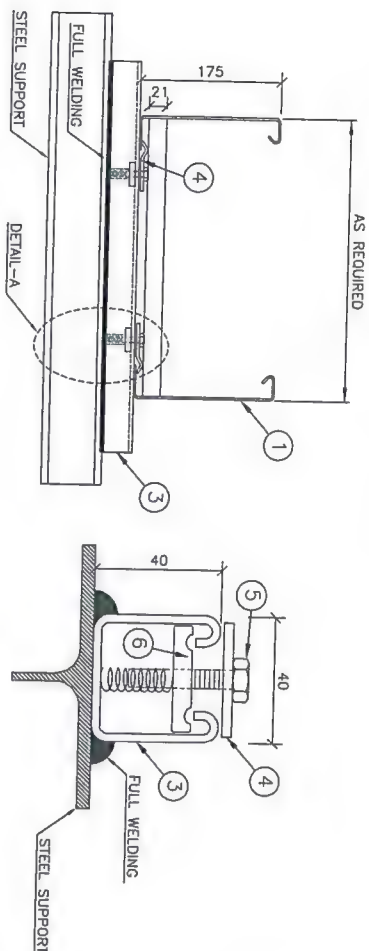
## 12.02- Electrical Drawings



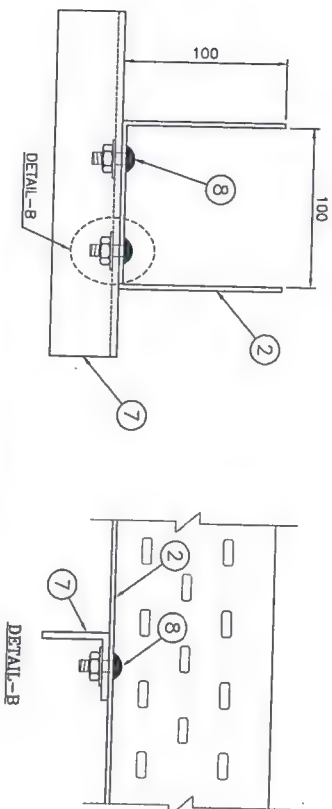
# BILL OF MATERIAL

ITEM No.	QTY.	UNITS	DESCRIPTION	MATERIALS	SUPPLIED BY
1	AR	MT	CABLE TRAY LADDER TYPE	HOG STEEL	TRAYS SUPPLIER
2	AR	MT	CABLE CHANNEL	HOG STEEL	TRAYS SUPPLIER
3	AR	MT	UNISTRUT 40x40mm, 2mm THICKNESS	HOG STEEL	TRAYS SUPPLIER
4	2	EA	HOLD DOWN CLAMP	HOG STEEL	TRAYS SUPPLIER
5	2	EA	HEX HEAD BOLT M10X40	STAINLESS STEEL	TRAYS SUPPLIER
6	2	EA	SPRING NUT 6mm THICKNESS	ELECTRO PLATED GALVANIZED STEEL	TRAYS SUPPLIER
7	AR	MT	L - ANGLE	HOG STEEL	CONSTRUCTION CONTRACTOR
8	2	SET	PAN HEAD BOLT M6X30 C/W FLAT WASHER, LOCK WASHER AND HEX NUT	STAINLESS STEEL	TRAYS SUPPLIER
9	AR	MT	VENTILATED COVER 1.5mm THICKNESS	HOG STEEL	TRAYS SUPPLIER
10	1	EA	COVER CLAMP OF TWO PIECES	HOG STEEL	TRAYS SUPPLIER
11	2	SET	PAN HEAD BOLT M6X20 C/W FLAT WASHER AND HEX NUT	STAINLESS STEEL	TRAYS SUPPLIER

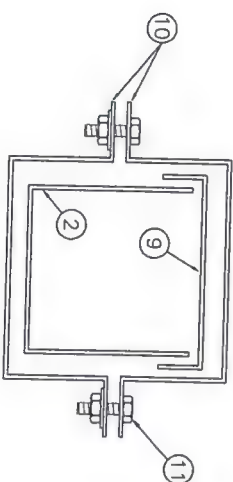
NOTES:  
1. ALL DIMENSIONS ARE IN mm.  
2. ALL FIXATION ACCESSORIES ARE STAINLESS STEEL 316.



CABLE TRAY (LADDER TYPE) FIXATION



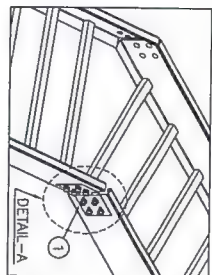
CABLE TRAY (CHANNEL TYPE) FIXATION



CABLE CHANNEL COVER INSTALLATION

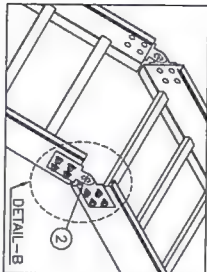
<b>EGPC</b> THE EGYPTIAN GENERAL PETROLEUM CO. EGPCC الشركة العامة للبترول		<b>EGPC</b> الشركة العامة للبترول	
FOR : THE EGYPTIAN GENERAL PETROLEUM CORPORATION (EGPC) AT : EGYPT		ل : الشركة العامة للبترول في : مصر	
<b>EGPC CRUDE OIL TANK FARM</b> ELECTRICAL INSTALLATION DETAILS POWER SYSTEM CABLE TRAY/CHANNEL FIXATION الدارة الكهربائية للخطات البترول والتخزين			
SCALE: NONE	DOCUMENT NUMBER: 01251-100-000-EID-001	SHEET: 05/12	REVISION: 0

# BILL OF MATERIAL



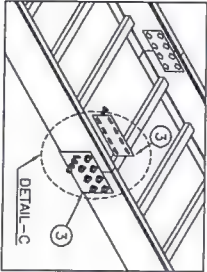
**DETAIL-A**  
(FOR FIXATION ACCESSORIES SEE  
DETAIL-1)

## HORIZONTAL ADJUSTABLE SPLICE PLATE



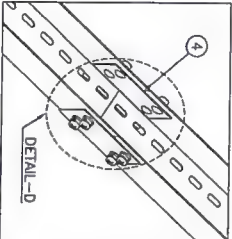
**DETAIL-B**  
(FOR FIXATION ACCESSORIES SEE  
DETAIL-1)

## VERTICAL ADJUSTABLE SPLICE PLATE



**DETAIL-C**  
(FOR FIXATION ACCESSORIES SEE  
DETAIL-1)

## SPLICE PLATE FOR CABLE LADDER

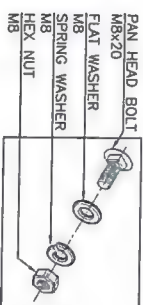


**DETAIL-D**  
(FOR FIXATION ACCESSORIES SEE  
DETAIL-2)

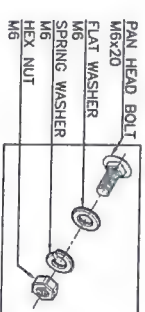
## SPLICE PLATE FOR CABLE CHANNEL

ITEM No.	QTY.	UNITS	DESCRIPTION	MATERIALS	SUPPLIED BY
1	1	PAIR	HORIZONTAL ADJUSTABLE SPLICE PLATE C/W STAINLESS STEEL FIXATION ACCESSORIES (16 SETS AS SHOWN IN DETAIL-1)	HOG STEEL	TRAYS SUPPLIER
2	1	PAIR	VERTICAL ADJUSTABLE SPLICE PLATE C/W STAINLESS STEEL FIXATION ACCESSORIES (16 SETS AS SHOWN IN DETAIL-1)	HOG STEEL	TRAYS SUPPLIER
3	1	PAIR	CABLE LADDER SPLICE PLATES (EXTERNAL & INTERNAL) C/W STAINLESS STEEL FIXATION ACCESSORIES (16 SETS AS SHOWN IN DETAIL-1)	HOG STEEL	TRAYS SUPPLIER
4	1	PAIR	CABLE CHANNEL SPLICE PLATES (EXTERNAL & INTERNAL) C/W STAINLESS STEEL FIXATION ACCESSORIES (16 SETS AS SHOWN IN DETAIL-2)	HOG STEEL	TRAYS SUPPLIER

- NOTES:
1. ALL DIMENSIONS ARE IN mm.
  2. ALL FIXATION ACCESSORIES ARE STAINLESS STEEL 316.
  3. EXPANSION SPLICE PLATES SHALL BE USED AT MAXIMUM DISTANCE 42METERS (AS PER NEMA-VE2).
  4. AS A GENERAL PRACTICE, AVOID PLACING SPLICE PLATES OVER SUPPORTS OR AT MID-SPAN OF CABLE TRAY.



**DETAIL-1**  
FIXATION ACCESSORIES



**DETAIL-2**  
FIXATION ACCESSORIES

EGPC  
THE EGYPTIAN GENERAL PETROLEUM CO.  
المشروع : الشركة العامة للبترول

FOR : THE EGYPTIAN GENERAL PETROLEUM CORPORATION (EGPC)  
AT : EGYPT  
الموقع : مصر

EGPC CRUDE OIL TANK FARM  
ELECTRICAL INSTALLATION DETAILS  
POWER SYSTEM  
CABLE TRAYS SPLICING

المشروع : الشركة العامة للبترول  
والشبكة الكهربائية

Enppi  
مبنى

ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES  
DOCUMENT NUMBER  
SCALE  
NONE  
01251-100-000-EID-001  
SHEET  
06/12  
REVISION  
0





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



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## 12.03- Motor Datasheets





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CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



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### 12.03- Motor Datasheets



Project: 01251-100  
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System ID	030-EL-011
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## 12.04- Electrical Cables Schedule



Project: 01251-100  
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System ID	030-EL-011
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## 12.05- Electrical Cables Laying Certificates

System ID	030-EL-011
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## 12.06- Electrical Cables Testing Certificates

**Enppi**EGPC CRUDE OIL TANK FARM  
AGROOD AREA (MODULE 1 & 2)

Owner : Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030  
:01251-100-031

Contractor CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0001  
Revision No. : 00**REQUEST FOR INSPECTION**

ACTIVITY : LIGHTING CABLE TRAY INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI-155 DISCIPLINE : ELECTRICAL

DATE : 3/23/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	LIGHTING CABLE TRAY INSTALLATION AT SWITCHGEAR ROOM	SUBSTATION BUILDING MODULE 1	23-Mar-21				

**NOTE:**

Inspection result : A - Approved B - Reject C - Approved with Comment

- earth for cable tray to be install.
- new marked up to be attached
- tray to be completed on MV section

	PETROJET	ENPPI	PMC
NAME :		Review / <i>[Signature]</i>	
SIGNATURE	<i>[Signature]</i>		<i>M. Omar</i>
DATE			23-3-2021

ITR-QC-0001

**Enppi****EGPC CRUDE OIL TANK FARM  
AGROOD AREA (MODULE 1 & 2)**

INSPECTION AND TEST REPORT FOR

**SUPPORTS&CABLE TRAYS INSTALLATION**

INSPECTION REPORT NUMBER

PTJ-ELE-RFI-15

INSPECTION DATE &amp; TIME

3/23/2021

ITR NUMBER

ITR-EL-0001

DISCIPLINE

ELECTRICAL

SHEET NO

1 OF 1

JOB DESCRIPTION

SUPPORTS &amp; CABLE TRAYS INSTALLATION IN BUILDING

AREA DESCRIPTION

AGROOD AREA MODULE 01

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No physical damage found.	✓		
2	Support type / size as per IFC drawings.	✓		
3	Support location / alignment as per IFC drawings.	✓		
4	Bolts / fixings properly tightened.	✓		
5	Welding correct (as required) and touch up paint applied.			✓
6	Tray size as per IFC drawings.	✓		
7	Tray location / routing as per IFC drawings.	✓		
8	Tray accessories / fixings are correctly installed (connecting plates, fixing clamps etc.) as per IFC drawings.	✓		
9	All cut / sharp edges are cleaned and Fixed with end Caps to avoid sharp edges, prior to approved touch up paint / coating being applied.	✓		
10	Earthing and bonding correctly installed.	✓	✗	
11	Tray is clean and free from debris/dust prior to cover installation.	✓		
12	Tray covers correctly installed (as required).			✓

Remarks:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			23-3-2021

ITR-EL-0001



EGPC CRUDE OIL TANK FARM AGROOD  
AREA (MODULE 1 & 2 )



Owner : Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030  
:01251-100-031

Contractor CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0001  
Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : SUPPORTS & TRAYS INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI-154 DISCIPLINE : E&I

DATE : 3/23/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	SUPPORTS&TRAYS INSTALLATION IN BUILDING	MODULE - 01	23-Mar-21				

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

- earth for cable tray to be install.
- find touch up to be done

PETROJET		ENPPI	PMC
NAME:		Ram	
SIGNATURE			M. omer 23-3-2021
DATE			

ITR-QC-0001



**Enppi****EGPC CRUDE OIL TANK FARM  
AGROOD AREA (MODULE 1 & 2)**

INSPECTION AND TEST REPORT FOR

**SUPPORTS&CABLE TRAYS INSTALLATION**

INSPECTION REPORT NUMBER

PTJ-ELE-RFI-154

INSPECTION DATE &amp; TIME

3/23/2021

ITR NUMBER

ITR-EL-0001

DISPLINE

ELECTRICAL

SHEET NO

1 OF 1

JOB DESCRIPTION

SUPPORTS &amp; CABLE TRAYS INSTALLATION IN BUILDING

AREA DESCRIPTION

AGROOD AREA MODULE 01

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No physical damage found.	✓		
2	Support type / size as per IFC drawings.	✓		
3	Support location / alignment as per IFC drawings.	✓		
4	Bolts / fixings properly tightened.	✓		
5	Welding correct (as required) and touch up paint applied.			✓
6	Tray size as per IFC drawings.	✓		
7	Tray location / routing as per IFC drawings.	✓		
8	Tray accessories / fixings are correctly installed (connecting plates, fixing clamps etc.) as per IFC drawings.	✓		
9	All cut / sharp edges are cleaned and Fixed with end Caps to avoid sharp edges, prior to approved touch up paint / coating being applied.	✓		
10	Earthing and bonding correctly installed.	✓		
11	Tray is clean and free from debris/dust prior to cover installation.	✓		
12	Tray covers correctly installed (as required).			✓

Remarks:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			23-3-2021

ITR-EL-0001





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 12.07- Electrical Cables Termination Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 12.08- FAT Reports & Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 12.09- SAT Reports & Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 12.10- Electrical Pre-Commissioning Check Lists

System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 12.11- Electrical Supplier Check Lists & Reports



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

### 13- Electrical Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

### 13.01- Electrical -Commissioning Check Lists

System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 13.02- Electrical Supplier Check Lists & Reports





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 14- Red Marked-up Drawings



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 14.01- P&ID



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

## 14.02- Instrumentation Drawings



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-011
System Description	Substation Building Electrical cable trays system

### 14.03- Electrical Drawings